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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/824,364	04/15/2004	Chang Nam Kim	K-0633	6307
34610	7590	05/11/2006	EXAMINER	
FLESHNER & KIM, LLP P.O. BOX 221200 CHANTILLY, VA 20153			GUHARAY, KARABI	
			ART UNIT	PAPER NUMBER
			2879	

DATE MAILED: 05/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

H.A

Office Action Summary

Application No.

10/824,364

Applicant(s)

KIM, CHANG NAM

Examiner

Karabi Guharay

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 April 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: #517 in Fig 5D, as disclosed on specification page 10, paragraph 38. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to because

- (1) # 515 in Fig 5F is pointing to bulkhead, which is designated as # 517,
- (2) further seal-cover 519, and seal 108, as disclosed in the description of Fig 5F is not shown in Fig 5F.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement

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drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: On page 10, paragraph 39 "Fig 6A" should be changed to "Fig 6".

Appropriate correction is required.

On page 5, line 1 contains foreign language characters, which needs to be translated or deleted.

Further applicant is requested in correcting any errors of which applicant may become aware in the specification.

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction

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of the following is required: Claim 4 recites "supplement bulkhead comprises metal such as Mo and Cr". However, there is no such description of supplemental bulkhead , instead specification describes "supplement electrode is made of conductive material such as Mo and Cr".

For examination purpose, claim 4 is treated as "supplement electrode comprises metal such as Mo and Cr".

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

In this case the beginning word "disclosed" should be omitted. appropriate correction is needed.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2 & 4-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 2 recites the limitation "the sealant" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 5 recites the limitation "the insulating film" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 7 recites the limitation "the glass substrate" in line 6. There is insufficient antecedent basis for this limitation in the claim.

Regarding claims 4 & 6, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 & 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Park et al. (US 20040140759).

Regarding claim 1, Park et al. disclose an organic EL display panel (see paragraphs comprising (see Fig 1B, 2A, & 13B) comprising an emitting cell comprising an ITO strip (2) a supplemental electrode (connecting terminal 205, not shown in Fig 2A, see paragraph 53), formed on a glass substrate an organic EL layer (organic

emission layer 6) and an anode trip (in this case cathode 9, shown in Fig 13B, paragraph 89), and a bulkhead (7) for insulating the emitting cell from the anode strip being characterized in, and further comprising at least one supplement bulkhead (72, 71 of Fig 3A, & 4) for coupling the bulkheads (7, paragraph 62).

Regarding claim 2, Park et al. disclose that the supplement bulkhead is provided in an area between the emitting cell and the sealant (Fig 2A and 13B).

Regarding claim 3, Park et al. disclose that the supplement bulkhead (71 & 72) forms a predetermined angle with the bulkhead (Fig 5 & 6).

Regarding claim 6, Park et al. disclose the anode strip (cathode 9) includes aluminum (paragraph 89).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tai et al. (Us 6656611), and further in view of Park et al. (US 20040140759).

Regarding claims 1 & 7, Tai et al., disclose a method of manufacturing an organic EL display panel (Fig 2A- Fig 3D) comprising an emitting cell (108) comprising an ITO strip (204 of Fig 2A, lines 29-31 of column 4) a supplement electrode (205 of Fig 2A) in a smaller width than ITO strip (204), forming an insulating film (106, 206 or 306),

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forming a bulkhead (310 of Fig 3A-3B), forming an organic EL layer (110, 112 of Fig 1) in the apertures (108, 208, 308), and an anode strip (cathode 114 or 214), and adhering the seal cover and the glass substrate by using sealant (lines 48-62 of column 8).

But, Tai et al. is silent about forming at least one supplement bulkhead coupling the bulkheads.

However, Park et al., in the same field of forming an Organic EL display panel discloses forming bulkheads (7) and at least one supplement bulkhead (71, 72) coupling the bulkhead (7, Fig 3A). Further park et al. teaches that such supplement bulkheads prevents ink for organic layer from running out from both ends of the channel and also prevents mixing with neighboring color ink of organic material (paragraph 22).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to form at least one supplement bulkhead coupling with bulkhead as taught by Park et al., since this will prevent ink for organic layer from running out from both ends of the channel and also prevent mixing with neighboring color ink of organic material.

Regarding claim 2, Park et al. disclose that the supplement bulkhead is provided in an area between the emitting cell and the sealant (Fig 2A and 13B). The same reason for combining art as in claim 1 applies.

Regarding claim 3, Park et al. disclose that the supplement bulkhead (71 & 72) forms a predetermined angle with the bulkhead (Fig 5 & 6). The same reason for combining art as in claim 1 applies.

Regarding claim 4, though Tai et al. is silent about the material for the contact lead (205) it is obvious to one of ordinary skill to use metal for the contact lead since electrical contact terminals are inherently made of conductive metals.

Regarding claims 5 & 9, Tai et al. disclose that the insulating layer (306) is formed around the organic EI layer from a predetermined area including the sealant and the supplement electrode to a portion of the glass substrate (see Fig 3B & 3D, lines 48-62 of column 8).

Regarding claim 6, Tai et al. disclose that the anode strip (cathode or second electrode) includes a conductive material including aluminum (lines 29-35 of column 1).

Regarding claim 8, Tai et al. disclose the first step of the process comprises a short ITO strip (205) than ITO strip between the bulkheads (lines 29-31 of column 4 & lines 66 of column 4-line 7 of column 5).

Regarding claim 10, Park et al. disclose that the bulkhead (7) and the supplement bulkhead (71, 72) are formed at the same time (paragraph 60-62). The same reason for combining as in claim 7 applies.

Other Prior Art Cited

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure : Okuyama et al. (US 6717357); JP (2001-230073).

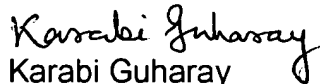
Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karabi Guharay whose telephone number is (571) 272-2452. The examiner can normally be reached on Monday-Friday 8:30 am - 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization is (571) 273-8300

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Karabi Guharay
Primary Examiner
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